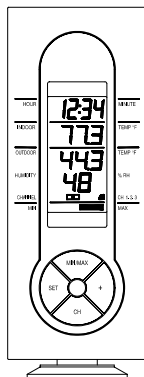


# WS-7212U Wireless 433 MHz Weather Station Instruction Manual

## LA CROSSE TECHNOLOGY



### INVENTORY OF CONTENTS

1. Two indoor weather stations (Figure 1)
2. The remote temperature/humidity sensor (TX4U) and mounting bracket. (Figure 2)
3. Mounting hardware.
4. Instruction Manual and Warranty Card.

Figure 1

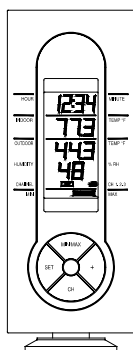
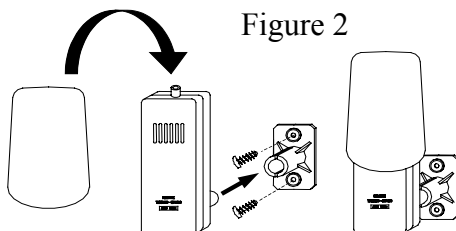


Figure 2



### ADDITIONAL EQUIPMENT

(not included)

1. 1 Philips screwdriver.
2. 4 Fresh AA 1.5V batteries.  
(2 for each indoor weather station)
3. 2 Fresh AA 1.5V batteries.  
(for temp/humidity sensor)

### QUICK SETUP

**Hint: Use good quality Alkaline Batteries and avoid rechargeable batteries.**

1. Have the indoor weather stations and remote temp/humidity sensor 3 to 5 feet apart.
2. Batteries should be out of all units for 10 minutes.
3. Place the batteries into the **remote temp/humidity sensor** first, then into the **indoor weather stations**.  
(All remote temp/humidity sensors must be started before the indoor weather stations)
4. **DO NOT PRESS ANY BUTTONS FOR 15 MINUTES.**

In this time the indoor weather stations and remote temp/humidity sensor will start to talk to each other and the displays will show both the indoor temperature and an outdoor temperature and humidity. If the indoor weather stations do not display both the indoor temperature and the outdoor temperature and humidity after the 15 minutes please retry the set up as shown on page five.

After both indoor temperature and outdoor temperature and humidity are displayed for 10 minutes you can place your remote temp/humidity sensor outdoors and set your time.

### Notes on Outdoor Sensor Placement

The remote temp/humidity sensor should be placed in a dry, shaded area. Fog and mist will not harm your remote temp/humidity sensor but direct rain must be avoided.

The remote temp/humidity sensor has a range of 80 feet. Any walls that the signal will have to pass through will reduce distance. An outdoor wall or window can have up to 30 feet of resistance and an interior wall can have up to 20 feet of resistance. Your distance plus resistance should not exceed 80 ft. in a straight line.

### Notes on Weather Station Placement

The 80 ft distance is between each indoor weather station and the temp/humidity sensor independently. The placement of one indoor weather station does not affect the placement of the second indoor weather station.

To complete the set up of your indoor weather stations after the 10 minutes have passed, please follow the steps below.

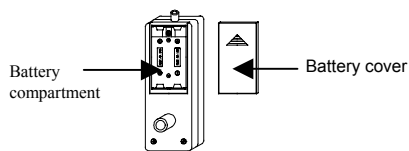
1. Press and hold the “*SET*” button for five seconds.
2. The hour will now be flashing.
  - a. Press and release the “+” button until the correct hour is shown.  
**Note:** There is “PM” displayed to the left of the hour when between noon and midnight. During the AM hours this area will be blank.
  - b. When the correct hour is shown, press and release the “*SET*” button once.
3. The minutes will now be flashing.
  - a. Press and release the “+” button until the correct minutes are displayed.

**Press and release the SET button once more and you are done.**

## DETAILED SETUP GUIDE

### I. BATTERY INSTALLATION

#### A. REMOTE TEMP/HUMIDITY SENSOR

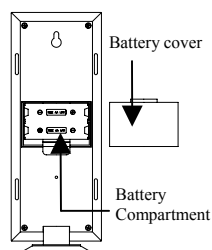


1. Remove the mounting bracket.
2. Remove battery cover
3. Observing the correct polarity, install 2 AA batteries—make sure they do not spring free, or start-up problems may occur.
4. Replace Cover

#### B. INDOOR WEATHER STATIONS

**Note:** After the batteries are installed, **DO NOT** press any buttons for 15 minutes. This may interfere with the signals, causing temperatures to register incorrectly.

1. Remove the battery cover on the backside. To do this, push up and pull out.
2. Observing the correct polarity, install 2 AA batteries.
3. Replace battery cover.
4. Wait 15 minutes or until both the indoor and outdoor temperatures are shown on the indoor weather station.
5. The indoor weather stations should now show: “-:- -” in the TIME LCD, indoor temperature in the INDOOR LCD and outdoor temperature and humidity in the OUTDOOR LCD.



## SETTING THE TIME

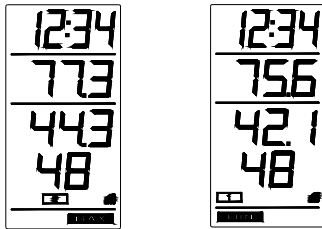
6. Press and hold the “*SET*” button for 5 seconds.
7. The hour will begin to flash.
8. Press and release the “+” button to advance the hour to your desired hour.
9. Press and release the “*SET*” button to move to the minute setting.
10. The minutes will begin to flash.
11. Press and release the “+” button to set the minutes.
12. Press and release the “*SET*” button to activate the clock.

**Note:** There is “PM” displayed to the left of the hour when between noon and midnight. During the AM hours this area will be blank.

## FEATURES

### A. MINIMUM AND MAXIMUM TEMPERATURES

1. Press and release the “*MIN/MAX*” button, “MAX” appears at the bottom of the display and the recorded maximum temperatures are displayed.



2. Press and release the “*MIN/MAX*” button to toggle to the minimum temperatures, “MIN” appears at the bottom of the display and the recorded minimum temperatures are displayed.

### B. RESETTING THE MINIMUM AND MAXIMUM TEMPERATURES

To reset both the minimum and maximum temperatures—press and hold the “*MIN/MAX*” button for 5 seconds.

### C. ADDING ADDITIONAL REMOTE TEMP/HUMIDITY SENSORS (OPTIONAL)

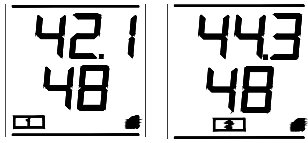
The WS-7212U is able to receive signals from 3 different remote temperature, temperature/humidity sensors. Following are some brief instructions for the basic set-up of remote sensor units with the WS-7212U. These extra sensors can be purchased through the same dealer as this unit, or by contacting La Crosse Technology directly. A TX6 will monitor temperature only, a TX3U will monitor temperature and display the temperature on its LCD, the TX3UP will monitor the temperature via a probe for use in pools, spas, etc and the TX4U will monitor temperature and humidity.

**Note:** When setting up multiple units it is important to remove the batteries from all existing units in operation, then to insert batteries first into all the remote temp/humidity sensor units, and in numeric sequence. Second, install batteries into the indoor weather stations. Transmission problems will arise if this is not done correctly and if the total time for set-up exceeds 6 minutes.

1. It is necessary to remove the batteries from all units currently in operation.
2. Remove the battery covers to all remote sensor units.
3. Place all remote sensor units in a numeric sequential order.
4. In sequential order, install batteries (follow the same battery installation procedures seen in section “I” of the Detailed Set-Up Guide) into the remote sensors.
5. Install batteries into the indoor weather stations.
6. Follow the Detailed Set-Up Guide for programming and operating instructions.

#### D. VIEWING AND OPERATING WITH MULTIPLE REMOTE SENSOR UNITS

1. To view the temperature of a different remote sensor unit, press and release the “CH” button. A shift from one “boxed” number to the next should be observed in the OUTDOOR LCD.



2. To view the Minimum/Maximum temperature: first select from which remote temp/humidity sensor to read data from (indicated by the “boxed” number). Pressing and releasing the “MIN/MAX” button will toggle through the minimum and maximum indoor temperature, and the minimum and maximum outdoor temperature.
3. To reset the Minimum/Maximum readings, press and hold the “MIN/MAX” button for five seconds.

#### MOUNTING

**Note:** To achieve a true temperature reading, avoid mounting in direct sunlight. We recommend that you mount the remote temp/humidity sensor on an outside North-facing wall. The sending range is 80ft; obstacles such as walls, concrete, and large metal objects will reduce the range. Place both units in their desired location temporarily to test reception capability before permanently mounting.

##### A. REMOTE TEMP/HUMIDITY SENSOR

1. Remove the mounting bracket from the remote temp/humidity sensor
2. Mount using either screws or adhesive tape.
3. Reattach the remote temp/humidity sensor to the mounting bracket.

##### B. THE WEATHER STATION

1. The indoor weather station comes with the table stand already mounted. If you wish to use the table-stand, all that is required is to place the indoor weather station in your desired location.
2. To wall mount:
  - a) Remove the table stand by pulling down on the stand from the rear and rotating forward.
  - b) Fix a screw (not included) into the desired wall.
  - c) Place the indoor weather station onto the screw using the hanging hole on the backside.
  - d) Gently pull the indoor weather station down to lock the indoor weather station into place.

#### TROUBLESHOOTING

**NOTE:** For problems not solved, please contact La Crosse Technology via e-mail or phone, or visit our website, [www.lacrossetechnology.com](http://www.lacrossetechnology.com)

**Problem:** The LCD is faint

**Solution:** Replace batteries

**Problem:** No outdoor temperature or humidity is displayed.

**Solution:**

- 1) First try to re-establish communication between the remote sensor and indoor weather station by moving both units to within three to five feet of each other. Wait about ten minutes and then check for a temperature and humidity.
- 2) If this does not work please remove the batteries from both units and restart the system (please see Detailed Set-up on page nine through eleven).

**Note:** Please make sure when restarting the system that all batteries are fresh.

- 3) Once the system has been reset and you have a temperature and humidity reading from the sensor, temporarily place the remote temp/humidity sensor in the previous location.

**Note:** If there is a outdoor temperature and humidity displayed when the two units are close together there was either too much distance between the two units previously or some type of interference that was causing poor reception.

- 4) If after 15 minutes the temperature and humidity are not displayed you will need to choose another location for placement of the temp/humidity sensor.
- 5) The best way of doing this is to move the sensor 10 feet closer to the indoor weather station.
- 6) After moving the remote temp/humidity sensor please wait 15 minutes to give the indoor weather station time to re-acquire the signal.
- 7)

**Problem:** Temperatures do not match if units are placed next to each other.

**Solution:** Each temp/humidity sensor is manufactured to be accurate to within 2 degree plus or minus and under normal conditions. It is possible for two temp/humidity sensors to be as much as 4 degrees different. The difference can be exaggerated further because the temp/humidity sensors are designed for different working environments. The indoor sensor is less responsive to ambient air currents because of the shielding effect of the indoor weather station's case. In addition, the casing can act as a heat sink to absorb and store heat from external sources (i.e. handling of the case or radiant heat). In addition, the much greater range of the outdoor temp/humidity sensor requires a different calibration curve than the indoor range. Error is usually greater at the extreme ends of a range, making it harder to compare different ranges with different curves. Under non-laboratory conditions, it is difficult to compensate for the above factors and obtain an accurate comparison.

## MAINTENANCE AND CARE INSTRUCTIONS

- Extreme temperatures, vibration, and shock should be avoided to prevent damage to the units.
- Clean displays and units with a soft, damp cloth. Do not use solvents or scouring agents; they may mark the displays and casings.
- Do not submerge in water.
- Do not subject the units to unnecessary heat or cold by placing them in the oven or freezer.
- Opening the casings invalidates the warranty. Do not try to repair the unit. Contact La Crosse Technology for repairs.

## SPECIFICATIONS

Transmitting Frequency	433MHz
<b>Measuring Range - Temperature</b>	
Indoor Weather Station: Indoor	32°F to 140°F with 0.1°F resolution.
Indoor Weather Station: Outdoor	-21.8 °F to 139.8°F with 0.1°F resolution.
Temp accuracy	+/- 1°F
<b>Measuring Range - Humidity</b>	
Indoor Weather Station:	20% to 95% with 1% resolution ("—" displayed when outside this range)
<b>Temperature Checking Interval</b>	
Indoor:	Every 10 seconds
Outdoor:	Three times in 10 minutes
<b>Humidity Checking Interval</b>	
Outdoor:	Three times in 10 minutes
Transmitting range:	Maximum 80 feet (25m) open space
<b>Batteries—(Alkaline recommended)</b>	
Remote Temp/Humidity Sensor	2 x AA, 1.5V
Indoor Weather Station	2 x AA, 1.5V
<b>Dimensions: (H x W x D)</b>	
Indoor Weather Station	7.5" x .3" x 1.12" (excluding table stand) (190 x 76 x 28 mm)
Remote Temp/Humidity Sensor	4.33" x 1.57" x 0.78" (110 x 40 x 20 mm) Rain Protector 2.25"Ø x 4.75" high (57 mmØ x 120 mm high)
Battery life	Approximately 1 year

## WARRANTY INFORMATION

La Crosse Technology provides a 1-year warranty on this weather station. Contact La Crosse Technology immediately upon discovery of any defects covered by this warranty.

Before sending the weather station in for repairs, contact La Crosse Technology. The weather station will be repaired or replaced with the same or similar model.

This warranty does not cover any defects resulting from improper use, unauthorized repairs, faulty batteries, or the weather stations inability to receive a signal due to any source of interference.

LA CROSSE TECHNOLOGY WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS WEATHER STATION. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to your State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

For warranty work, technical support, or information contact

La Crosse Technology  
700 E. Main Street  
Spring Grove, MN 55974  
Phone: 507.895.7095  
Fax: 507.895.8000

e-mail:

[support@lacrossetechnology.com](mailto:support@lacrossetechnology.com)

(warranty work)

[sales@lacrossetechnology.com](mailto:sales@lacrossetechnology.com)

(information on other products)

web:

[www.lacrossetechnology.com](http://www.lacrossetechnology.com)

## FCC DISCLAIMER

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Freq. 433.92 MHz  
La Crosse Technology  
Made in China  
WS-7212U

**FCC ID: OMO-01RX (Receiver)**  
**OMO-01TX (Transmitter)**

080503

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